

COMMUNICATION OF IMAGE DATA FROM  
IMAGE DETECTOR TO HOST COMPUTER

## ABSTRACT OF THE DISCLOSURE

An imaging system includes a programmable detector framing node controlling generation of radiation and controlling radioscopic image detection. Radioscopic image data is acquired by the detector framing node and communicated to a host memory of a host computer independently of a host computer operating system. Image data is received from a flat panel detector and is selectively reordered according to parameters of the selected flat panel detector before communication to the host memory. The detector framing node includes an image detection interface to receive the image data and a control unit to select a predetermined portion of the image data for storage into a detector memory unit before communication to the host memory.